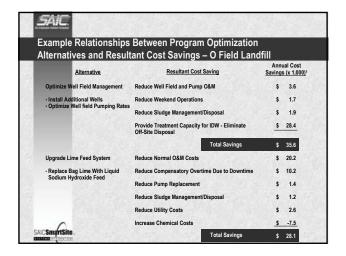
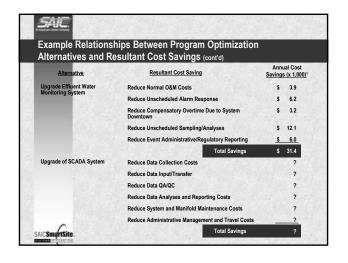
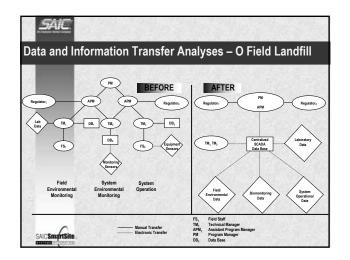
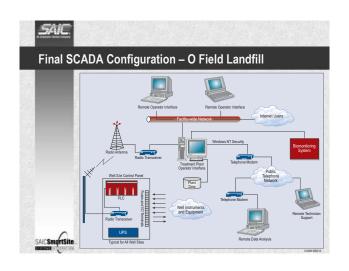


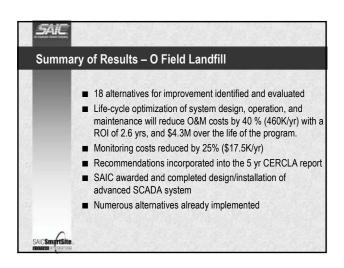
ample Optimization	n Alternatives – O Field L	andfill	(co
Problem or Program Element	Solution	Annual Savings (
Well Field Control and Monitoring	Install and Execute SCADA Supported O&M	\$	31
GWTF Control and Monitoring	Install and Execute SCADA Supported O&M	\$	54
Well Field Environmental Monitoring Program	Reduce Number and Frequency of Sampling	\$	47
GWTF Environmental Monitoring Program	Develop Reliable Off-Gas Monitoring Program Using Field Methods	\$	17
Data Management and Reporting	Develop SCADA Supported and Standardized/Automated Data Analyses and Report Generation	s	69
Other	Reduce GAC Loading, Upgrade Emergency Generator, Execute SCADA-Supported O&M	\$	11

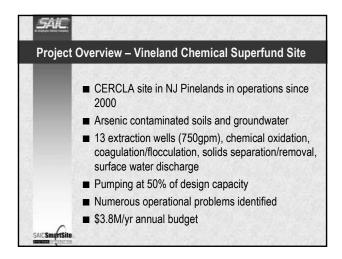


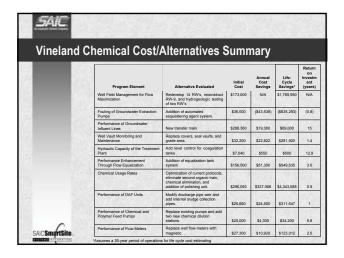












Vineland Chemical Cost/Alternatives Summary (Cont)								
Р	rogram Element	Alternative Evaluated	Initial Cost	Annual Cost Savings	Life-Cycle Savings ¹	ROI (years)		
Compres	sed Air System	Add third compressor.	\$15,600	\$1,875	\$10,195	8.3		
Sludge D Managen	ewatering and ent	Replace centrifuges with filter presses	\$280,500	\$96,300	\$1,045,400	2.9		
Installatio Storage F	n of MOVs in Chemical acility	Install motor operators on valves	\$64,175	\$315	\$0	>30		
	ystem – Well Field nd Operations	Implement SCADA well field control and monitoring	\$45,660	\$6,370	\$42,022	7.2		
	ystem – Treatment trol and Operations	Implement integrated plant control and monitoring	\$104,200	\$28,600	\$289,474	3.6		
	ystem – Operator ontrol of Chemical Feed	Integrate chemical feed rate control into PLC	\$50,000	\$25,662	\$303,233	2.0		
PLC and Obsolesc	VFD Maintenance and ence	Perform VFD survey and substitution design	\$6,200	\$0	\$0	N/A		
Environm Field Mor	ental Monitoring – Well itoring	Optimize sampling frequency and install dedicated sampling pumps	\$124,500	\$63,440	\$748,741	2.0		
	ental Monitoring = t Plant Monitoring	Reduce frequency of two off- site sampling parameters.	\$19,500	\$11,720	\$141,824	1.7		
Data Mar	agement and Reporting	No opportunities for improvement identified	N/A	N/A	N/A	N/A		
	TOTAL	\$1,296,873	\$657,778	\$9,696,354	1.05			

